

**REMARKS**

Claims 1-30 are pending. In accordance with the foregoing, claims 1-4, 9, 12, 19-22, and 25-28 are amended. Support for claim amendments is found in Figure 3 and paragraphs 50 and 51 of the originally-filed specification. New claims 31 and 32 are added and supported by Figure 4 and its corresponding description and paragraph 73 of the originally-filed specification.

Claim 20 is objected to because of an informality. Applicant has corrected the claim in accordance with the forgoing amendments, thereby obviating the objection.

Claims 2, 3, 9, 14, 15, 20, 21, 26 and 27 stand rejected under 35 U.S.C. 112, second paragraph as being indefinite for providing insufficient clarification of the definition of "temporal resolution". Temporal resolution refers to the precision of a measurement with respect to time ([http://en.wikipedia.org/wiki/Temporal\\_resolution](http://en.wikipedia.org/wiki/Temporal_resolution)). In accordance with the foregoing amendments, Applicant has amended claim 1 to more clearly set forth "the long-term memory buffer thereby storing statistical aspects having a temporal resolution of the parameter values corresponding to the predetermined storage interval of the temporary memory buffer." As such the precision of the measurement of the parameter values (statistical aspects) with respect to time corresponds to the predetermined storage interval of the temporary memory buffer. Applicant respectfully requests withdrawal of the rejection.

Claims 1-30 stand variously rejected under 35 U.S.C. 102(b) as being anticipated by Duffin (U.S. 6,230,059) and Bennett (U.S. 5,331,966) and/or under 35 U.S.C. 103(a) as being unpatentable over Duffin and Bennett in view of Nikolic (U.S. 5,743,267) and Brown (U.S. 5,997,476) or in view of Wateridge (U.S. 5,355,891). Claim 1 as amended recites "determining a statistical aspect of the stored parameter values in the temporary buffer upon expiration of the storage interval; and writing the statistical aspect as it is determined for a plurality

of the predetermined storage intervals to a long-term memory buffer, the long-term memory buffer storing the statistical aspects for a long-term storage interval, the long-term memory buffer thereby storing statistical aspects having a temporal resolution of the parameter values corresponding to the predetermined storage interval of the temporary memory buffer."

Duffin addresses distinguishing noisy EGM episode data from noise free EGM episode data. As such, Duffin teaches sampling and storing an EGM signal. Bennett, incorporated by Duffin, also teaches storing a sampled EGM signal. Using the EGM sample values, the most common value (MCV) is determined and established as a baseline for use in distinguishing noisy from noise-free EGM signals. The Examiner has interpreted the MCV as a statistical aspect. The MCV however is determined from the signal samples, not a parameter value derived from the signal samples. Furthermore, writing the MCV as it is determined for a plurality of storage intervals to a long-term memory buffer is not taught. Rather, the MCV is used to define a baseline range; the baseline range is then applied to an EGM episode stored in a temporary register. The EGM episode is moved from the temporary register to either a noisy or noise free episode register based on the comparison of the EGM sample values to the baseline. As such, Duffin and Bennett teach storing EGM sample values in a register. Neither the MCV nor a statistical aspect of parameter values derived from the sampled EGM signal is written to a long-term buffer and stored for a long-term storage interval, thereby storing data in the long-term buffer with a temporal resolution corresponding to the storage interval of the temporary buffer.

None of the additionally cited references teach, suggest or imply "writing the statistical aspect as it is determined for a plurality of the predetermined storage intervals to a long-term memory buffer, the long-term memory buffer storing the statistical aspects for a long-term storage interval, the long-term memory buffer thereby storing statistical aspects having a temporal resolution of

the parameter values corresponding to the predetermined storage interval of the temporary memory buffer." For at least this reason, applicant respectfully asserts the rejection should be withdrawn.

Applicant respectfully asserts that the present claims are in condition for allowance. Withdrawal of the instant rejections and issuance of a Notice of Allowance is respectfully requested.

Respectfully submitted,

---

April 29, 2008  
Date

---

/Paul H. McDowall/  
Paul H. McDowall  
Reg. No. 34,873  
(763) 526-0929  
Customer No. 27581